SCREENING SITE INSPECTION WORK PLAN
FOR
LOGAN STORAGE SITES
FRANKLIN GROVE, ILLINOIS
U.S. EPA ID: ILD025475914
SS ID: N/A
TDD: F05-8917-089
PAN: FIL0705SA

MARCH 8, 1990

Elements of this Screening Site Inspection Work Plan are considered confidential and pre-decisional in nature. Material and information contained within this report may not be released without the approval of the United States Environmental Protection Agency Region V Pre-Remedial Unit.

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

5HR-11

Mr. Thomas Crause, Manager
Hazardous Substances Planning Unit
Illinois Environmental
Protection Agency
2200 Churchill Rd.
Springfield, Illinois 62794-9276

Site Name: Logan Storage Sites

Location: Franklin Grove

Identification No. ILD025475914

Date: March 8 1990

Dear Mr. Crause:

Attached is a copy of the site inspection work plan which has been prepared for the site listed above. This document is considered to be draft and subject to changes and modifications based on actual conditions which may be encountered at the site.

Because this is considered to be a draft document, it should be for official use only and should not be distributed outside of your agency without prior notification and approval of the U.S. Environmental Protection Agency.

The document also contains a preliminary estimate of the Hazard Ranking System (HRS) score for the site and a project score based on specific assumptions as addressed in the work plan. This information is considered predecisional. Therefore, it should not be released. Your field and district staff especially should be made aware of the predecisional nature of this score, the legal implications of releasing it relative to the National Priorities List (NPL) candidacy process, and therefore the need not to release any score. If you have any questions concerning release of this information, please contact Ms. Jeanne Griffin, of my staff, at (312) 886-3007.

If you have any comments on the work plan itself, please contact Mr. Charles Castle, of my staff, at (312) 886-5892, within eight calendar days. If we do not receive any comments written or verbal from you, then we will assume that the work plan is acceptable.

Please note that inspections are carried out under CERCLA to determine if a site will make the NPL. Thus, extra sampling or other activities that serve only a State purpose should not be requested. We will welcome suggestions based on the knowledge of you and your staff that will make for a better site inspection for NPL candidacy purpose.

Please talk with Mr. Castle as early within the comment period as possible in order that your suggestions can be evaluated and modifications made.

Sincerely yours,

Thomas Geishecher

Thomas Geishecker, Chief
Technical Support Section

Enclosures

1427:4

WORK PLAN

INSPECTION WORK PLAN

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this document, this document and its attachments are not to be released without prior approval of the United States Environmental Protection Agency (U.S. EPA).

This site inspection work plan (WP) has been prepared by Ecology and Environment, Inc., or its subcontractor, C. C. Johnson and Malhotra, P.C., under the field investigation team (FIT) contract with U.S. EPA (No. 68-01-7347).

The objectives of this WP are to:

- Prepare a preliminary Hazard Ranking System (HRS) score using HRS 1 (40 CFR 300, July 16, 1982) criteria based on existing file information (Part C of WP);
- Prepare projected HRS 1 scores based on experience and professional judgement (Part C of WP);
- Identify HRS 1 score data gaps (Part E of WP); and
- Propose site inspection activities to satisfy the HRS 1 score data gaps; technical approach and estimated LOE are provided (Parts E and I, respectively).

Unless othervise stated, QA/QC protocol for site inspection activities is documented in the Quality Assurance Project Plan Region V FIT Conducted Site Inspections - May 1, 1987.

A. GENERAL INFORMATION

CERCLIS SITE NAME: Logan Storage Site
ALSO KNOWN AS: Bob Logan Tractor Company
FORMERLY KNOWN AS: N/A
ADDRESS: Box 216, State Street
CITY: Franklin Grove
STATE: Illinois
COUNTY: Lee
ZIP CODE: 61031
U.S. EPA ID: ILD025475914
SSID: N/A
TDD: F05-8912-089
PAN: FIL07055A

FIT USE ONLY

WORK PLAN TYPE: ✓ SCREENING SITE INSPECTION (SSI) WORK PLAN

___ OTHER: _____

PREPARED BY: Jeff Taylor (FIT) DATE: 2/5/90

REVIEWED BY: Karen N Spangler (FIT) DATE: February 13, 1990

APPROVED BY: Regina Bayer (FIT) DATE: 3/5/90

U.S. EPA USE ONLY

REVIEWED BY: _____ (U.S. EPA) DATE: _____

___ WORK PLAN APPROVED. Recommend issuance of TDD to implement the Work Plan.

___ WORK PLAN APPROVED. No Further Remedial Action Planned (NFRAP).

___ WORK PLAN REJECTED.

COMMENTS: _____

B. SITE INFORMATION

This section of the WP presents current and historic information pertaining to the site, including: site operations, storage/disposal methods, site property area, site status, owners and operators, permit information, and response/enforcement activities. A site location map is shown on Figure 1, located in Section 2.

1. Site Operations (past and present; check all that apply):

✓	Above ground storage	____	Mining site
____	Below ground storage	____	Open dump
____	Chemical manufacturer	____	Ore processor
____	Drum recycler	____	Physical/chemical treatment
____	Electroplater	____	Recycler/reclaimer
____	Foundry	____	Surface impoundment
____	Incinerator	____	Underground injection
____	Landfarm	____	Well field
____	Landfill	____	Wood preserver
____	Midnight dump	✓	Other: Used Tractor Part Sales

References: 1 , 9 , _____ , _____ , _____

2. Storage/Disposal Methods (past and present; check all that apply):

		Waste Quantity (amount/units of measure)
✓	Drums, above ground	~1400
____	Landfarm	
____	Landfill	
____	Open dump	
____	Piles	
____	Surface impoundment	
____	Tank, above ground	
____	Tank, below ground	
____	Other: _____	

References: 1 , 9 , _____ , _____ , _____

3. Site Property Area: ~2 (acres)

References: 1 , 2 , _____ , _____ , _____

4. Site History/Description and Unusual Features: (see following page.)

References: 1 , 9 , 10 , 11 , _____

SITE HISTORY (Continued)

During the mid 1970's Mr Bob Logan began storing drums of Paint sludge and paint waste solvents at his place of business in Franklin Grove, Illinois. This waste originated from the Valspar Corporation of Rockford, Illinois. By 1976, Mr Logan had accreted approximately 1400 drums of this paint waste. On May 29, 1980 the Illinois Environmental Protection Agency (IEPA) conducted a site investigation and observed drums on this site. Another site investigation by the IEPA on June 25 1980, discovered that some drums were leaking. According to Mr. Logan he was in the process of getting rid of the drums. Over the next two years the IEPA conducted numerous site investigations and observed That the drums were being removed. File information indicates that the drums were sent to various locations, some to BFI / Davis Junction IL. landfill, some to Huckill Chemical and Solvent Recovery Corporation, and others To a Landfill in North Dakota. File information also indicates that by October 30 1982 the drums had been removed along with any spilled material and contaminated Soil. According to the IEPA Regional office there was a report that drums were alleged to have been buried on site.

5. Site Status: ✓ Active _____ Inactive

References: 1 , _____ , _____ , _____ , _____

6. Owner/Operator History

Current Owner

Name: Robert Logan
Address: Box 216 Stale Street
City, State, Zip Code: Franklin Grove, IL 61031
Years of Ownership: > 40 yrs

Current Operator

Name: Robert Logan
Address Box 216 Stale street
City, State, Zip Code: Franklin Grove, IL 61031
Type of Operation: Farm implement Sales/Farm Storage
Years of Operation: Unknown

Previous owners (list most recent first)

Name: N/A
Address:
City, State, Zip Code:
Years of Ownership:

Name: N/A
Address:
City, State, Zip Code:
Years of Ownership:

Previous operators (list most recent first)

Name: N/A
Address
City, State, Zip Code:
Type of Operation:
Years of Operation:

Name: N/A
Address
City, State, Zip Code:
Type of Operation:
Years of Operation:

References: 1 , 12 , _____ , _____ , _____

7. Permit Information

	Effective Date	Expiration Date
___ NPDES		
___ UIC		
___ AIR		
___ RCRA, ___ PART A ___ PART B		
___ SPCC PLAN		
___ STATE (specify): _____		
___ LOCAL (specify): _____		
___ OTHER (specify): _____		
✓ NONE		

References: 1 , _____ , _____ , _____ , _____

8. Response Activities (previous and current site remediation; check all that apply):

____	Water supply closed	____	Cutoff trenches/sump
____	Temporary water supply provided	____	Subsurface cutoff wall
____	Permanent water supply provided	____	Barrier wall constructed
✓	Spilled material removed	____	Capping/covering
✓	Contaminated soil removed	____	Bulk tankage repaired
____	Waste repackaged	____	Grout curtain constructed
✓	Waste disposed elsewhere	____	Bottom sealed
____	On-site burial	____	Gas control
____	In situ treatment	____	Fire control
____	Encapsulation	____	Leachate treatment
____	Emergency waste treatment	____	Area evacuated
____	Cutoff walls	____	Access to site restricted
____	Emergency diking/surface water diversion	____	Population relocated

Other remedial and enforcement activities: File information indicates the drums were removed. Some were sent to land fills and others were sent to chemical recyclers. File information also indicates Mr Logan began this process on his own and the IEPA monitored the situation's progress.

References: 1, 9, _____, _____, _____

9. Documented and Alleged Target Compounds

Documented and alleged target compounds are compiled in Table 1. The documented target compounds are supported by analytical data from previous sampling projects. The alleged target compounds are based on the history of site operations and profession judgement. Documented and alleged target compound locations are shown on Figure 2, located in Section 2.

LOCATON	CMPND STATUS		MATRIX (✓)							DOCUMENTED COMPOUND AND CONCENTRATION OR ALLEGED COMPOUND AND RATIONAL	REFERENCE
	DOCU	ALLEG	SOIL	SED	GW	SW	AIR	WSTE	OTHR		
A		✓	✓							Lead	1
A		✓	✓							Paint Sludges and Solvents	1

Table 1

DOCUMENTED/ALLEGED TARGET COMPOUND LIST

C. PRELIMINARY/PROJECTED HRS SCORES

The purpose of this section is to:

- Prepare a preliminary HRS 1 score based on existing file information; and
- Prepare projected HRS 1 scores based on experience and professional judgement.

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

S_M = 0 S_{FE} = 0 S_{DC} = 0

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

S_M = 24.42 S_{FE} = 0 S_{DC} = 16.67

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

S_M = 40.70 S_{FE} = 0 S_{DC} = 16.67

HRS 1 score worksheets are located in Section 3.

D. WORK SUMMARY

Based on the preliminary and projected HRS scores, a site inspection will be performed.

The objectives of the site inspection are to:

- o Provide information to satisfy HRS data gaps;
- o Develop the information base needed to permit U.S. EPA to evaluate the need for future site activities; including: immediate removal measures, additional investigation, or no further action; and
- o Characterize hazardous substances, pollutant dispersal pathways, types of receptors, facility management practices, and potentially responsible parties.

Specific tasks to be conducted during the site inspection are (check all that apply):

- ✓ Interview site owner(s)/representative(s)
- ✓ Take photographs of site and surrounding areas
- ✓ Screen site with safety instrumentation (i.e.,HNU, OVA, O_2 meter, explosimeter, radiation detector, cyanide detector)
- ✓ Collect environmental samples
- ✓ Assess the need for Immediate Removal Actions
- ____ FASP*
- ____ Soil gas monitoring*
- ____ Well point installations*
- ✓ Geophysics*: Oyo model-2441 Geo radar-I Grand (Specify)
- ____ OTHER*: Penetrating Radar Unit, E6+6 Geometrix Proton Precession magnatometer.

* Rationale for these activities and their impact on HRS data gaps:
These techniques will be used in an attempt to verify a report of alleged buried drums.

E. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

1. A) HRS data gap(s): Waste characteristics

B) Sampling proposed to satisfy HRS data gap(s):

✓ Soil ____ Sediment ____ GW ____ SW ____ Air ____ Waste

C) Sampling procedures (number and types of samples; equipment; methodology): Five soil samples are proposed for this data gap, including 4 on-site subsurface soil samples and one off-site sample for potential background characteristics. All samples will be packed and shipped as per proper EPA and E+E protocol.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

2. A) HRS data gap(s): Observed release to groundwater

B) Sampling proposed to satisfy HRS data gap(s):
____ Soil ____ Sediment ____ GW ____ SW ____ Air ____ Vaste

C) Sampling procedures (number and types of samples; equipment; methodology): No samples are proposed for this data gap Residential and municipal wells are located greater than 1/4 mile from the site.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

B. PROPOSED SAMPLE PLAN

The HRS data gaps are identified in this section, and a proposed sample plan is developed based on the type of information required.

3. A) HRS data gap(s): Observed release to surface water

B) Sampling proposed to satisfy HRS data gap(s):

____Soil ____Sediment ____GW ____SW ____Air ____Vaste

C) Sampling procedures (number and types of samples; equipment; methodology): No Samples are proposed for this data gap, since an overland route is not believed to exist.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented on Figure 3 in Section 2.

4. A) HRS data gap(s): Fire and Explosion, Direct Contact, Air Route

B) Sampling proposed to satisfy HRS data gap(s):
____Soil ____Sediment ____GW ____SW ____Air ____Vaste

C) Sampling procedures (number and types of samples; equipment; methodology): These data gaps will be addressed during the site representative interview.

A table of proposed sample descriptions is presented in Table 2, Section 1. A proposed sample location map is presented in Figure 3, in Section 2.

Note: Sample locations and/or the number of samples may be changed or eliminated at the discretion of the site team leader in response to actual site conditions during the course of the inspection.

	MATRIX (✓)							RATIONALE FOR DETERMINING SAMPLE LOCATION	PARAMETERS[1]					
LOCATION	SOIL	SED	GW	SW	AIR	WSTE	OTHR		A/B/N	Pest/ PCB	VOA	METAL	CN^-	OTHER
S1	✓							Waste Characteristics	✓	✓	✓	✓	✓	
S2	✓							"	✓	✓	✓	✓	✓	
S3	✓							"	✓	✓	✓	✓	✓	
S4	✓							"	✓	✓	✓	✓	✓	
S5	✓							Potential Background Sample	✓	✓	✓	✓	✓	
TOTALS	5								5	5	5	5	5	

[1]Target Compound List Attached

Table 2

PROPOSED SAMPLE DESCRIPTIONS

(INCLUDING ALL LABORATORY BLANKS AND DUPLICATES)

F. COMMENTS

IT is believed Mr Logan still operates his used Tractor parts company on this site, but it is believed he no longer accepts drums of waste.

In A Telephone Conversation W/ Bob Wengrow of the IEPA, FIT was informed that no enforcement activities were even enacted at this site. He also told FIT of a report of alleged buried drums.

G. HEALTH AND SAFETY

Proposed E & E Health and Safety protocol to be followed during site inspection.

1. Anticipated level of protection: ____ A ____ B ____ C ✓ D

2. Level of protection modifications: Level D, with possible upgrades to level C if monitoring equipment action levels are reached.

3. Work limitations (time of day, etc.): Work will be limited to day light hours only. Team members will be monitored for heat/cold stress. The buddy system will be observed at all times when on site.

H. TYPE OF DELIVERABLE

Proposed report format to be submitted to U.S. EPA.

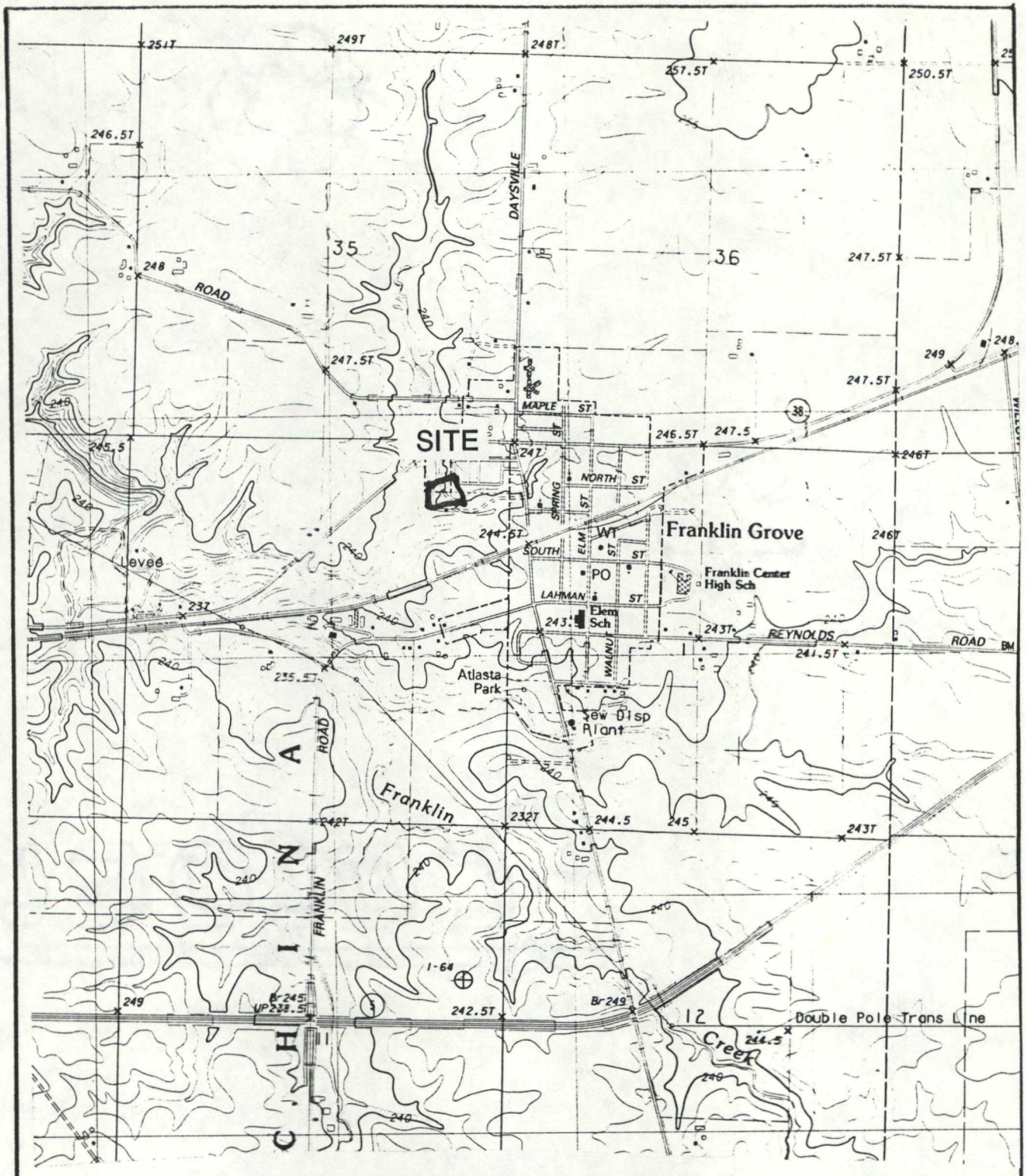
1. ✓ SSI Report including U.S. EPA 2070-13 Form
2. ___ Letter Report
3. ___ Other_____

	SUBTASK																				
SUBTASK CODE	General Non-Specific	File Search/Review	Work Plan	Safety Plan	QAPP	Mobilization/Demobilization	Travel	Non-Sampling Field Work	Sample Management	Field Sampling	Screening/Analytical	Subcontract	Meteorologic/Air Sampling Studies	Geophysical Work	Hydrogeological Work	Data Processing/Modelling	Data Validation	Draft Final Deliverable	Internal QA Review	Final Deliverable	Respond To Comments	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	TOTAL
TEAM LEADER	12	12		8		4	8	8		8				8				60		20	8	156
SAFETY OFFICER	2			1		4	8	8		8				8								39
SAMPLER	2					2	8	8	16					8								44
TEAM MEMBER	2					2	8	8		8				8								36
TEAM MEMBER	2					2	8	8		8				8								36
Publications																			40			40
Sample Coord.									4													4
Audit Team	1																		25			25
QA/Admin				8													5					13
TOTALS FOR PROJECT	20	12		17		14	40	40	20	32				40			5	60	65	20	8	400

I. ESTIMATED LOE HOURS

SUMMARY OF PROJECTED HOURS NEEDED TO IMPLEMENT
SITE INSPECTION AND COMPLETE SITE INSPECTION REPORT.

SITE MAPS



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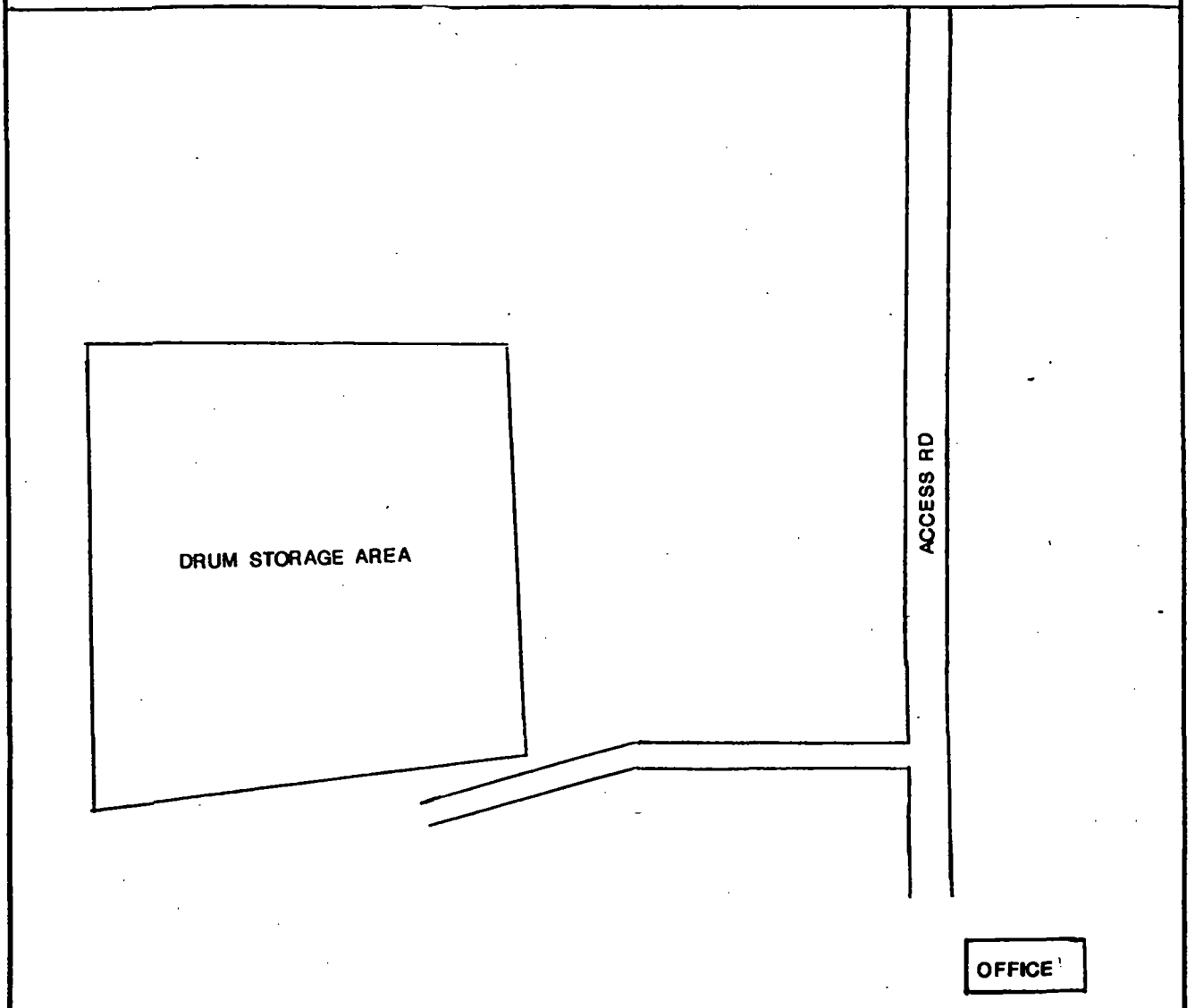
TITLE: SITE LOCATION MAP	FIGURE # 1
SITE: LOGAN STORAGE SITE	SCALE: 1:24000
CITY: FRANKLIN GROVE — STATE: IL	P.A.N.: FIL0705SA
SOURCE: USGS TOPOGRAPHIC MAP FRANKLIN GROVE IL	DATE: 1983 — REVISED:



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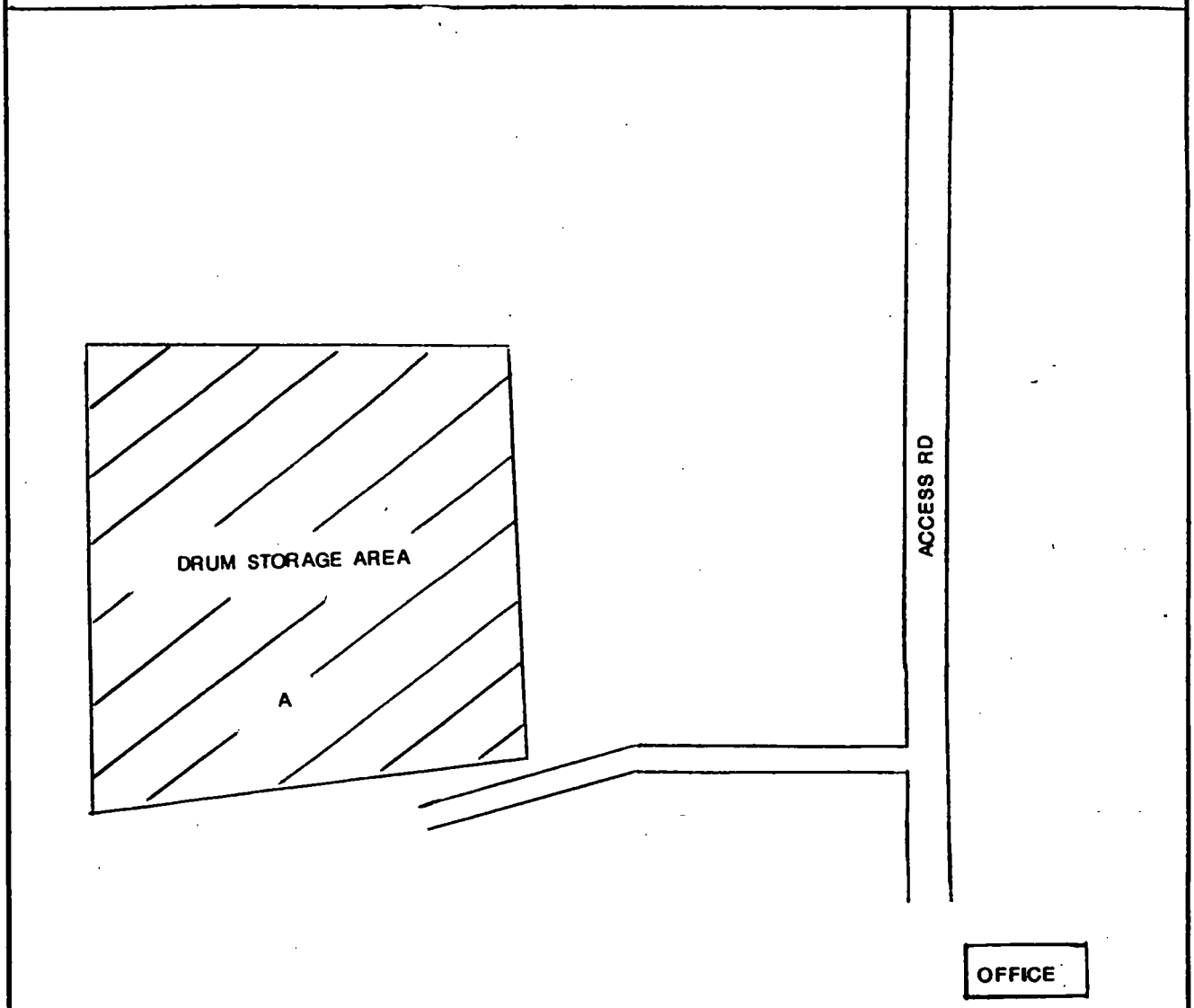
TITLE: SITE FEATURES MAP	FIGURE #: 2
SITE: LOGAN STORAGE SITE	SCALE: NOT TO SCALE
CITY: FRANKLIN GROVE STATE: IL	P.A.N.: FIL0705SA
SOURCE: IEPA MEMO/MAP 4/15/81 BY P.D. LOPINTO	DATE:
	REVISED:



ALLEGED AREA OF CONTAMINATION

(A) LETTERED ITEMS CORRESPOND TO TABLE 1

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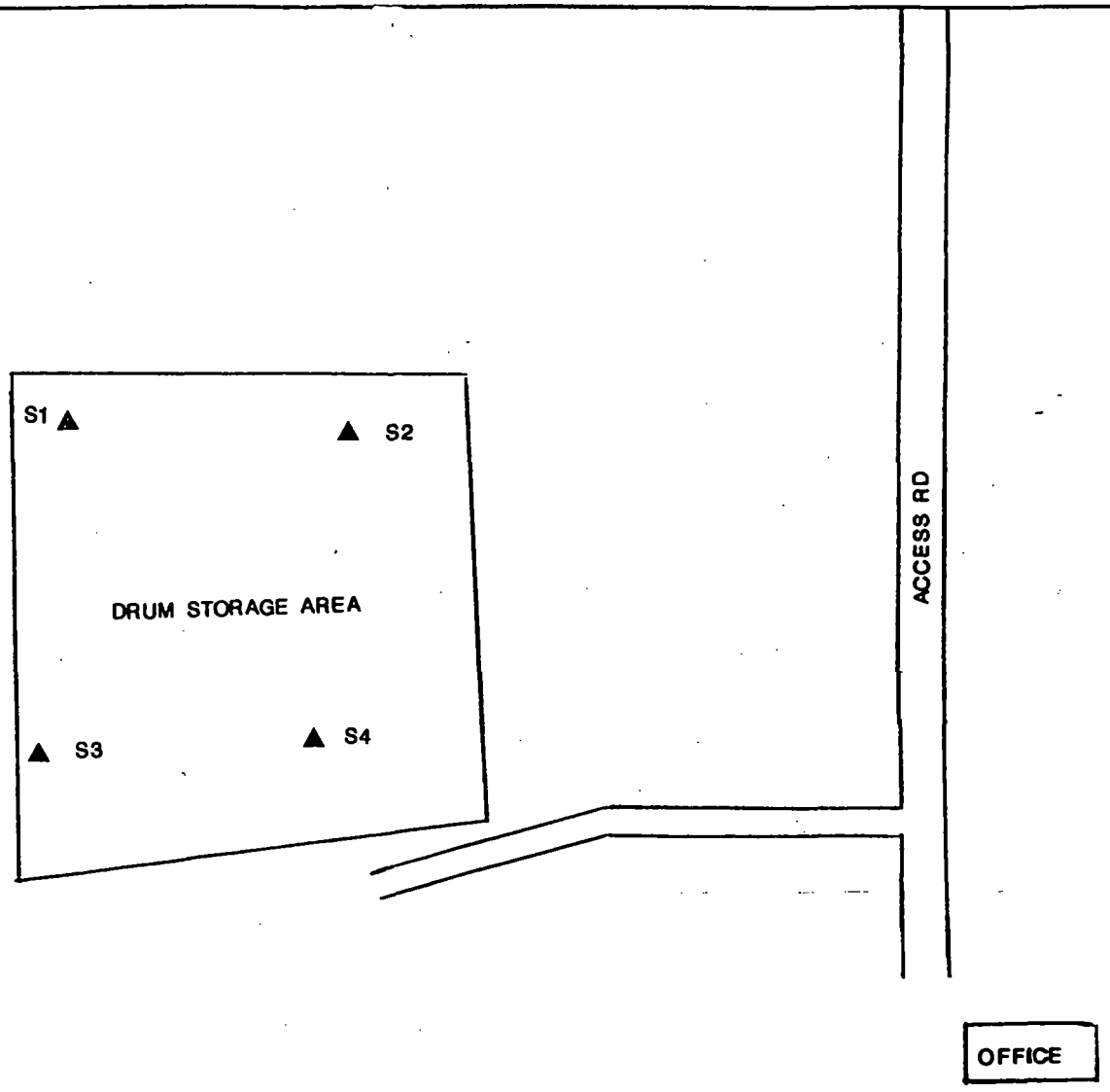
TITLE: DOCUMENTED/ALLEGED TARGET COMPOUND MAP	FIGURE #: 3
SITE: LOGAN STORAGE SITE	SCALE: NOT TO SCALE
CITY: FRANKLIN GROVE — STATE: IL	P.A.N.: FIL0705SA
SOURCE: IEPA MEMO/MAP 4/15/81 BY P.D. LOPINTO	DATE:
	REVISED:



▲ PROPOSED SOIL SAMPLE LOCATION

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TITLE: PROPOSED SOIL SAMPLE LOCATION MAP	FIGURE #: 4
SITE: LOGAN STORAGE SITE	SCALE: NOT TO SCALE
CITY: FRANKLIN GROVE — STATE: IL	P.A.N.: FIL0705SA
SOURCE: IEPA MEMO/MAP 4/15/81 BY P.D. LOPINTO	DATE:
	REVISED:

Hazard Ranking System 1
Score Worksheets

PRELIMINARY AND PROJECTED
HAZARD RANKING SYSTEM
SCORE WORKSHEETS

Site Name: Logan Storage Sites (Cercis Name)

Bob Logan Tractor company (AKA)

Address: Box 216 State Street

City/County/State/Zip Franklin Grove, Lee, Illinois, 61031

Cercis ID # ILD 025475914 SSID None

Prepared by Jeff Taylor E&E Date 2/5/90

Reviewed by [signature] E&E Date February 13, 1990

TDD: F05-8912-089 PAN FIL0705SA

Type of Document

- PA ___
- PA Reassessment ___
- WP-SSI ✓
- WP-LSI ___

PRELIMINARY HRS SCORE

S_M= 0 S_{FE}= 0 S_{DC}= 0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

S_M= 24.42 S_{FE}= 0 S_{DC}= 16.67

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

S_M= 40.70 S_{FE}= 0 S_{DC}= 16.67

PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	42.24	1784.22
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1784.22
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		42.24
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		24.42

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	70.41	4957.57
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4975.57
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		70.41
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		40.70

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1		No Documentation	–
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Sandstone Limestone	3
Depth to Aquifer of concern	0 1 (2) 3	x2	4	40 ft	3
Net Precipitation	0 (1) 2 3	x1	1	Precip 34" Evap 32	4
Permeability of the Unsaturated Zone	0 (1) 2 3	x1	1	10^{-5}-10^{-7} cm/sec	3
Physical State	(0) 1 2 3	x1	0	Unknown	–
	Total Route Char. Score		6		
3 Containment	0 1 2 (3)	x1	3	Drums leaking	10
4 Waste Characteristics					
Persistence / Toxicity	(0) 1 2 3 0: (0) 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 18	x1	0	Unknown	–
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	Unknown	–
	Total Waste Char. Score		0		
5 Targets					
Groundwater Use	0 1 2 (3)	x3	9	Drinking water	8
Distance to Nearest Well / Population Served	(0) 1 2 3 (4) 0: 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 (3): 0 12 18 24 (30) 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	30	~ 1/4 mile ~ 1274 people	8,2 8,2
	Total Targets Score		39		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 0		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	-
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Sandstone Limestone	3
Depth to Aquifer of concern	0 1 (2) 3	x2	4	40 ft.	3
Net Precipitation	0 (1) 2 3	x1	1	Precip 34 / Evap 32	4
Permeability of the Unsaturated Zone	0 (1) 2 3	x1	1	10^{-5}-10^{-7} cm/sec	3
Physical State	0 1 2 (3)	x1	3	Paints Liquids, Sludges	1
	Total Route Char. Score		9		
3 Containment	0 1 2 (3)	x1	3	Barrels leaking	1,10
4 Waste Characteristics					
Persistence	0 1 2 (3)				
Toxicity	0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 (18)	x1	18	Assume heavy metals, (Lead) From Paint Sludges	1
Haz. Waste Quantity	0 1 2 3 4 (5) 6 7 8	x1	5	~1400 drums	1,10
	Total Waste Char. Score		23		
5 Targets					
Groundwater Use	0 1 2 (3)	x3	9	Drinking water	8
Distance to Nearest Well	0 1 2 3 (4)			~1/4 mile to well	8,2
Population Served	0: 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 (3): 0 12 18 24 (30) 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	30	~1274 People	8,2
	Total Targets Score		39		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			24219		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 42.24		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	0 (45)	x1	45	Assume observed release	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		ft.	
Net Precipitation	0 1 2 3	x1		Precip Evap	
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec	
Physical State	0 1 2 3	x1			
	Total Route Char. Score				
3 Containment	0 1 2 3	x1			
4 Waste Characteristics				Assume heavy metals, (Lead) from Paint Sludges	
Persistence	0 1 2 (3)				
Toxicity	0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 (18)	x1	18		
Haz. Waste Quantity	0 1 2 3 4 (5) 6 7 8	x1	5	~ 1400 drums	1, 10
	Total Waste Char. Score		23		
5 Targets					
Groundwater Use	0 1 2 (3)	x3	9	Drinking Water	8
Distance to Nearest Well	0 1 2 3 (4)			~ 1/4 mile	8.2
Population Served	0: 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 (3): 0 12 18 24 (30) 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	30	~ 1274 people	8, 2
	Total Targets Score		39		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			40365		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 7041		

SURFACE WATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil ≤ 3 %	2
Intervening Terrain / Facility Slope	(0) 0 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Interv ≤ 3 %	2
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.5 in.	5
Distance to Nearest Surface Water	0 1 (2) 3	x2	4	≈ 1/4 mi. to Franklin Cr.	2
Physical State	(0) 1 2 3	x1	0	Unknown	—
	Total Route Char. Score		6		
3 Containment	0 1 2 (3)	x1	3	Drums leaking	10
4 Waste Characteristics					
Persistence	(0) 1 2 3			Unknown	—
Toxicity	0: (0) 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 18	x1	0		
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	Unknown	—
	Total Waste Char. Score		0		
5 Targets					
Surface Water Use	(0) 1 2 3	x3	0	Franklin Cr. Not Currently Used	8
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	Nonewithin 1 mile	7.2
Population Served / Distance to Water Intake Downstream	(0) 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	0	Surface water not used for drinking	8
	Total Targets Score		0		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	—
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics					
Intervening Terrain Facility Slope	(0) 0 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Fac ≤ 3 % Interv ≤ 3 %	2 2
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.5 in.	5
Distance to Nearest Surface Water	0 1 (2) 3	x2	4	~1/4 mi to Franklin Cr.	2
Physical State	0 1 2 (3)	x1	3	Paint Sludges, Liquids	1
Total Route Char. Score			9		
3 Containment	0 1 2 (3)	x1	3	drums leaking	10
4 Waste Characteristics					
Persistence Toxicity / Persistence: 0: 0 0 0 0; 1: 3 6 9 12; 2: 6 9 12 15; (3): 9 12 15 (18)	0 1 2 (3)			Assume Heavy metals (Lead) from Paint Sludges	
		x1	18		1
Haz. Waste Quantity	0 1 2 3 4 (5) 6 7 8	x1	5	~ 1400 Barrels	1,10
Total Waste Char. Score			23		
5 Targets					
Surface Water Use	(0) 1 2 3	x3	0	Franklin Cr. Not Currently Used	8
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	None within 1 mile	7, 2
Distance to Water Intake Downstream Population Served: (0) 0 0 0 0; 0 4 6 8 10; 0 8 12 16 20; 0 12 18 24 30; 0 16 24 32 35; 0 20 30 35 40				Surface water	
		x1	0	Not used for drinking	8
Total Targets Score			0		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 0		

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	—
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil ≤3 %	2
Interpening Terrain: Facility Slope (0 0 0 0 3 / 0 1 1 2 3 / 0 1 2 2 3 / 0 2 2 3 3 / 0 2 3 3 3)	(0)	x1	0	Interv ≤3 %	2
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.5 in.	5
Distance to Nearest Surface Water	0 1 (2) 3	x2	4	~1/4 mile to Franklin Cr	2
Physical State	0 1 2 (3)	x1	3	Paint Sludges, Liquids	1
Total Route Char. Score			9		
3 Containment	0 1 2 (3)	x1	3	drums leaking	10
4 Waste Characteristics					
Persistence	0 1 2 (3)			Assume Heavy metals (lead) from paint	
Toxicity (0: 0 0 0 0 / 1: 3 6 9 12 / 2: 6 9 12 15 / (3): 9 12 15 (18))		x1	18	Sludges	1
Haz. Waste Quantity	0 1 2 3 4 (5) 6 7 8	x1	5	~ 1400 Barrels	1
Total Waste Char. Score			23		
5 Targets					
Surface Water Use	(0) 1 2 3	x3	0	Franklin Cr Not currently used	8
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	None within 1 mile	7,2
Population Served / Distance to Water Intake Downstream (0: 0 0 0 0 0 / 0: 4 6 8 10 / 0: 8 12 16 20 / 0: 12 18 24 30 / 0: 16 24 32 35 / 0: 20 30 35 40)		x1	0	Surface water not used for drinking	8
Total Targets Score			0		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 0				

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	—
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
Total Waste Char. Score					
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
Total Targets Score					
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	—
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets	Dist to Population				
Population within 4-mile Radius	Pop. 0 0 0 0 / 9 12 15 18 / 12 15 18 21 / 15 18 21 24 / 18 21 24 27 / 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No documentation	—
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop: 0 0 0 0 / 9 12 15 18 / 12 15 18 21 / 15 18 21 24 / 18 21 24 27 / 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3			0		
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

FIRE AND EXPLOSION

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Containment	(1) 3	x1	1	Barrels have been removed	1
2 Waste Characteristics					
Direct Evidence	(0) 3	x1	0	No documentation	-
Ignitability	(0) 1 2 3	x1	0	"	-
Reactivity	(0) 1 2 3	x1	0	"	-
Incompatibility	(0) 1 2 3	x1	0	"	-
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	"	-
	Total Waste Char. Score		0		
3 Targets					
Dist. to Nearest Pop.	0 1 2 (3) 4 5	x1	3	~ 500 FT	2
Dist. to Nearest Bldg.	0 1 2 (3)	x1	3	on site	9
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	> 100 ft	2
Land Use	0 1 2 (3)	x1	3	Residential < 1/4 mile	2
Pop. Within 2 miles	0 1 2 (3) 4 5	x1	3	~ 1178 people	2,6
Bldgs. Within 2 miles	0 1 2 (3) 4 5	x1	3	~ 430 bldgs	2,6
	Total Targets Score		15		
4 Multiply 1 x 2 x 3			75		
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} =	0		

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Containment	(1) 3	x1	1	Barrels have been removed	1
2 Waste Characteristics					
Direct Evidence	(0) 3	x1	0	No documentation	-
Ignitability	(0) 1 2 3	x1	0	Barrels removed	-
Reactivity	(0) 1 2 3	x1	0	"	-
Incompatability	(0) 1 2 3	x1	0	"	-
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	"	-
	Total Waste Char. Score		0		
3 Targets					
Dist. to Nearest Pop.	0 1 2 (3) 4 5	x1	3	~500 ft	2
Dist. to Nearest Bldg.	0 1 2 (3)	x1	3	on site	9
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	> 100 ft	2
Land Use	0 1 2 (3)	x1	3	Residential < ¼ mile	2
Pop. Within 2 miles	0 1 2 (3) 4 5	x1	3	~ 1178 people	2.6
Bldgs. Within 2 miles	0 1 2 (3) 4 5	x1	3	~ 430 bldgs	2,6
	Total Targets Score		15		
4 Multiply 1 x 2 x 3			75		
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	(1) 3	x1	1	Barrels have been removed	1
2 Waste Characteristics					
Direct Evidence	(0) 3	x1	0	No documentation	-
Ignitability	(0) 1 2 3	x1	0	Barrels removed	1
Reactivity	(0) 1 2 3	x1	0	"	1
Incompatability	(0) 1 2 3	x1	0	"	1
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	"	1
	Total Waste Char. Score		0		
3 Targets					
Dist. to Nearest Pop.	0 1 2 (3) 4 5	x1	3	~500 ft	2
Dist. to Nearest Bldg.	0 1 2 (3)	x1	3	on site	9
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	>100 ft	2
Land Use	0 1 2 (3)	x1	3	Residential <1/4 mi	2
Pop. Within 2 miles	0 1 2 (3) 4 5	x1	3	~1178 people	2,6
Bldgs. Within 2 miles	0 1 2 (3) 4 5	x1	3	~430 bldgs	2,6
	Total Targets Score		15		
4 Multiply 1 x 2 x 3			75		
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 5		

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	No documentation	–
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	Area fenced	11
3 Containment	(0) 15	x1	0	Unknown	–
4 Waste Characteristics					
Toxicity	(0) 1 2 3	x5	0	Unknown	–
5 Targets					
Pop. Within 1 mile	0 1 (2) 3 4 5	x4	8	~1033 people	6, 2
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	None listed for Lee Co.	7
	Total Targets Score		8		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 21,600 and multiply by 100			S_{OC}=0		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	No documentation	—
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	Area fenced	11
3 Containment	0 (15)	x1	15	Assume No Containment	—
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	Assume Lead	—
5 Targets					
Pop. Within 1 mile	0 1 (2) 3 4 5	x4	8	~1033 people	6.2
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	None listed for Lee Co.	7
	Total Targets Score		8		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3600		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 16.67		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Incident:	(0) 45	x1	0	No documentation	—
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 (2) 3	x1	2	Area fenced	11
3 Containment	0 (15)	x1	3	Assume No Containment	—
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	Assume Lead	—
5 Targets					
Pop. Within 1 mile	0 1 (2) 3 4 5	x4	8	~ 1033 people	6, 2
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	None listed for Leadville	7
	Total Targets Score		8		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3600		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 16.67		

APPENDIX

Copies of the following addenda have been supplied to the U.S. Environmental Protection Agency and the appropriate state agencies. Refer to these addenda when revieving this work plan.

Addendum	Title
A	Routine Analytical Services Contract Required Detection and Quantitation Limits
B	Central Regional Laboratory Detection Limits
C	Special Analytical Services Detection Limits Drinking Water Samples
D	Special Analytical Services Detection Limits High Concentration Samples

REFERENCES

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
1	U.S. EPA, May 22 1985, Potential Hazardous waste site Preliminary Assessment, for Logan Storage Sites, US. EPA. ID: ILD025425914, Prepared by Kenneth Page, IEPA.
2	U.S.G.S, 1983, Grand Detour; 1983, Dixon East; 1983, Daysville; 1983, Franklin Grove; 1975. Chana; 1975, Ashton, Illinois Quadrangales, 7.5 minute Series: 1:24,000.
3	Illinois Dept. of Public Health, Well Construction reports of 8 wells, Lee County, IL, T. 21N, R. 10E, sec's 1, 2, 3, 10, 11, 12.
4	U.S. Dept. of Comerce, 1979, National Climatic Center, Climatic Atlas of the United States, Ashville N.C.

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
5	U.S. Dept. of Commerce, 1963, Rainfall Frequency atlas of the U.S., Technical Paper #40, Washington DC.
6	U.S. Dept. of Commerce, 1982, Bureau of the Census, Number of Inhabitants, Illinois, 1980 census.
7	U.S. Dept of Interior, 1989, US Fish + wildlife service Endangered species list, Great lakes Region.
8	Uphoff, Bill, January 30, 1990, City of Franklin Grove water dept., Telephone conversation, contacted by Jeff Taylor of E+E.

REFERENCE DOCUMENTATION SHEET

Ref.#	DESCRIPTION OF REFERENCE
9	Illinois Environmental Protection Agency, May 29, 1980, Memo to division files, Site investigation by Amy Loiselle of IEPA.
10	Illinois Environmental Protection Agency, June 25, 1980, Memo to division file on Logan storage, filed by Amy Loiselle of IEPA.
11	Illinois Environmental Protection Agency, January 21, 1981, Observation report for Logan storage, filed by Amy Loiselle of IEPA.
12	Illinois Environmental Protection Agency, April 15, 1981 Memo to division file on Logan Storage, filed by LD LoPinto.

SOURCES AND DATES OF INFORMATION COLLECTION

SOURCE	DATE
1) State Hazardous/Solid Waste Files	1-17-90
2) State Water Files	
3) State Air Files	
4) State Department of Health	
5) State Geological Survey	
6) State Department of Natural Resources	
7) State Fire Marshall	
8) County Department of Health	
9) County Engineer	
10) County Clerk/Recorder of Deeds	
11) City Department of Health	
12) City Engineer	
13) City Fire Department/Fire Marshall	
14) City Water/Sewer Department	Jan 30 1990
15) U.S. Soil Conservation Service	
16) Others	

STATE CONTACT(S): Bob Wenzow (name) — 815 987-7404 (phone number)

(name) — (phone number)